IN THE CLAIMS

Please amend the following of the claims which are pending in the present

application:

1. (Original) A continuously variable ratio transmission assembly ("variator")

comprising a roller which transmits drive between a pair of races, the roller being

movable in accordance with changes in variator ratio, a hydraulic actuator which

applies a biasing force to the roller, at least one valve connected to the actuator

through a hydraulic line to control pressure applied to the actuator and so to

control the biasing force, and an electronic control which determines the required

biasing force and sets the valve accordingly, characterised in that the valve setting

is additionally dependent upon a rate of flow in the hydraulic line.

2. (Original) A continuously variable ratio transmission assembly as claimed

in claim 1 wherein the control electronics serve to determine the rate of flow in the

hydraulic line, to determine a consequent pressure change between the actuator

and the valve, and to adjust the valve setting to compensate for the pressure

change.

3. (Original) A continuously variable ratio transmission assembly as claimed

in claim 2 wherein the electronic control calculates the pressure change from the

rate of flow and the characteristics of one or more components of the hydraulic

line.

4. (Original) A continuously variable ratio transmission assembly as claimed

in claim 3 wherein the component characteristics are modelled in the electronic

control.

(Currently amended) A continuously variable ratio transmission assembly 5.

as claimed in any preceding claim $\underline{1}$ wherein the electronic control determines the

rate of flow from variator ratio and rate of change of variator ratio.

6. (Currently amended) A continuously variable ratio transmission assembly

as claimed in any of claims 2 to 5 claim 2 wherein, in calculating the rate of flow,

the electronic control takes account of predicted values of engine speed and

engine acceleration.

7. (Original) A continuously variable ratio transmission assembly as claimed

in claim 6 wherein the hydraulic line incorporates at least one component serving

to create a pressure change in response to flow and thereby to damp oscillation of

the variator roller, wherein by virtue of the compensation to the valve setting

based upon predicted engine acceleration the effect of the valve and the

component together is to damp deviations of roller position from those

corresponding to the predicted engine acceleration.

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8. (Currently amended) A continuously variable ratio transmission assembly as claimed in any preceding claim 1 wherein, in calculating the rate of flow, the electronic control takes account of vehicle speed and vehicle acceleration.

9. (Original) A continuously variable ratio transmission assembly as claimed in claim 8 wherein, in determining the value of vehicle acceleration used in calculating the rate of flow, the control electronics take account of net force applied to drive the vehicle.

10. (Original) A continuously variable ratio transmission assembly as claimed in claim 9 wherein net force applied to drive the vehicle is used to obtain a first vehicle acceleration signal which is high pass filtered, measurement of vehicle speed or acceleration is used to obtain a second vehicle acceleration signal which is low pass filtered, and the first and second signals are then added together to provide an improved vehicle acceleration signal used in calculating the rate of flow.

11. (Currently amended) A continuously variable ratio transmission assembly as claimed in any of claims 8 to 10 claim 8 wherein a measured vehicle speed signal is low pass filtered and an offset is added to the filtered signal to compensate for time lag caused by the filtering.

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Examiner: Not Yet Assigned Art Unit: Not Yet Assigned

12. (Original) A continuously variable ratio transmission assembly as claimed

in claim 11 wherein the offset is calculated by multiplying the differential of the

filtered signal by a time constant.

13. (Currently amended) A continuously variable ratio transmission assembly

as claimed in any preceding claim $\underline{1}$ wherein the valve is a pressure reducing valve

which receives high pressure fluid and applies a fluid pressure to the hydraulic

line, the fluid pressure corresponding to the valve setting.

14. (Currently amended) A continuously variable ratio transmission assembly

as claimed in any preceding claim 1 comprising two hydraulic lines each with a

respective valve for control of pressure, the hydraulic lines being led to opposite

sides of a piston in the actuator so that the biasing force depends upon a difference

in pressures from the two lines.